

Husky Energy

PRESSURE VESSEL INSPECTION REPORT

W0# 6076353

Bob

N# 6072734 ✓
PAGE: 1 of 3

FACILITY	Warner Field	DATE	June 1/2009	Equip. #	66068659 ✓
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VESSEL STATIC DATA

Prov. Insp. #	2875921	CRN	M1438.2	Equip Tag #	
Equipment Location (LSD)	2-30-7-16w4	Serial #	BW 75-001		
Equipment Description	Test sep.			Vessel Class	
Manufacturer	Brooks Welding			Year Built	1993
MAWP	675 PSI / 4654 kPa	PSI	@ 100 200°F / 43°C	MDMT	-20 °F °C
CODE : UM	<input type="checkbox"/>	U	<input checked="" type="checkbox"/>	U2	<input type="checkbox"/>
RT :	1	x	2	3	<input type="checkbox"/>
			4		<input type="checkbox"/>
Diameter	48"	Length	OAL	10'	Vertical <input type="checkbox"/> Horizontal <input checked="" type="checkbox"/>
Shell Mat'l	SA 516-70	Thickness	1"	in	Corr Allowance 0 in
Head Mat'l	Sa 516-70	Thickness	1" / 0.990"	in	Corr Allowance 0 in
Nozzle Mat'l		Thickness		Mm/in	Corr Allowance Mm/in
Internal Coating	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Internal Clad	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	Capacity	142 Ft3
Manways	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Inspection Port	YES <input type="checkbox"/> NO <input type="checkbox"/>	Skirt Legs	Saddle <input checked="" type="checkbox"/>
Nozzle Rating	300 ANSI	Painted	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Insulated	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

PROCESS DATA

Product Description	Emulsion	Sweet	Sour <input checked="" type="checkbox"/>
Operating Pressure	200 PSI	Operating Temperature	20 °C

PSV STATIC DATA

Tag / Serial No.	Location	Size		Set Pressure	Capacity SCFM	Manufacturer	Model / Type	Service Date
	Side of sep.	Inlet	Outlet					
39196-A10 ✓	Top shell	1.5"	2"	675 PSI	1786 scfm	Farris	26DA12-120	05/07

INSPECTION HISTORY

RBI Category	A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/>	Last Inspection Date	W.O. #
Inspection Task List #		Inspection Type	Inspection Reason Integrity Inspection <input type="checkbox"/>
Inspection Techniques Required		Next Inspection Type	Due Date
VE <input type="checkbox"/> VI <input type="checkbox"/> RT <input type="checkbox"/> UT <input type="checkbox"/> MT <input type="checkbox"/> PT <input type="checkbox"/> TT <input type="checkbox"/>		Outstanding Repairs :	

INSPECTION SUMMARY

A complete inspection was done to verify the integrity of this vessel VE and UT were used. No notable defects were found this vessel is recommended fit for continued service

RECOMMENDATIONS

This vessel should be on a five year interval
Decrease inspection interval to 1 year in order to internally inspect in 2010.

REPAIRS COMPLETED

Object Name	Cause	Damage	Repair Activity

VESSEL STATUS

[Handwritten signature]

FACILITY Warner Field	DATE June 1/2009	Equip. # 66068659
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Integrity Status <i>Suitable for Continued Service</i> x	<input type="checkbox"/> Immediate Repairs Required	<input type="checkbox"/> Replace
	<input type="checkbox"/> Future Repairs Required	
Inventory Status Inservice Fully Utilized	<input type="checkbox"/> Idle	<input type="checkbox"/> Surplus
		<input type="checkbox"/> Scrap
This IR completes a thorough inspection. Reschedule as indicated x Partial IR only. Do not reschedule <input type="checkbox"/>		

INSPECTION OBSERVATIONS

NONCOMPLIANCES OR INSPECTION DEFICIENCIES ISSUED

EXTERNAL VISUAL INSPECTION

The nameplate, instrumentation, piping and piping attachments are in acceptable condition.
 The vessel is bolted to a skid floor, anchor bolts are in acceptable condition.
 There are no apparent leaks in the system.
 The gauges and site glass are clear and good condition.
 The structural attachments are in good condition.
 The vessel is protected by a PSV that is in acceptable condition.
 The vessels grounding is in satisfactory condition.
 The vessel is painted with no notable defects.
 The vessel is insulated the cladding and insulation are in good condition with no notable corrosion being found.

EXTERNAL NDE EXAMINATION


A spot UT inspection was performed by Forrest Lester the values recorded are as follows
 Shell 1.062>1.072 and 1.050>1.080
 Head 1.042>1.058 and 1.049>1.083

INTERNAL VISUAL INSPECTION
INTERNAL NDE EXAMINATION
PRESSURE TEST

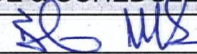
Test Completed Yes No Test Acceptable Yes No Test Report #

INSPECTOR CERTIFICATION

I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and that statements within this report are correct and represent inspection findings

Inspectors Name Forrest Lester	Inspector's Signature 
Inspection Company Husky Energy Inc.	Date JUNE 3/09

LEAD INSPECTOR'S ACCEPTANCE & SCHEDULE CONFIRMATION

Lead Inspector Bob Marchak	Signature 	Date June 10, 2009
Vessel Inspection Interval 1 year	Leave "as-is"	Change to

PRESSURE VESSEL INSPECTION REPORT

FACILITY Warner Field	DATE June 1/2009	Equip. # 66068659
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PSV Inspection Interval 4 years <i>SH</i>	Leave "as-is"	Change to
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Office Use Only Report Entered to SEQA Database by
Static Data Verified by

Date
Date

SEIM Changes

Equip Text & Tech. Description - Change 2'x6' to 4' x 10'

Construction Year - 1993 ✓

Vessel Diameter - 4' ✓

Length - 10' ✓

Internal Coating - Yes ✓

Head Thickness 0.990" ✓

Design Max Temp 93°C ✓ OK

Volume 142 ft³ ✓

SEPARATOR RT-4

1993 6981

4654 XXX 98

SA 516 TO 1"

SA 516 TO 1"

29°C

BM 75-001 M 14382

ⓐ 2875921

Other General Inspection Report Pressure Vessel



Organization: Husky	Inspection Date: 01/06/2009
Plant: Southern Alberta	Equipment ID: 66068659
	Asset No: 66068659
	System: N/A
	Operating Unit: Warner Satellite

Background

Description:	SEPARATOR, HORIZONTAL, 4654 KPA, 4"x10"
Asset Type:	Separator

Other Inspection Data

Inspector:	LESTER, FORR	Company:	N/A
Test Equipment Mfg:		Model:	
Other Inspection Method:	UT Thickness		

Scope of Inspection

External NDE Exam

Observations/Measurements

Location	Observation Measurement	Acceptance Criteria	NCR	Comments

Inspection Summary

<p>A spot UT inspection was performed by Forrest Lester the values recorded are as follows Shell 1.062>1.072 and 1.050>1.080 Head 1.042>1.058 and 1.049>1.083</p>

**Other General Inspection Report
Pressure Vessel**

Inspection Planning

Date of Inspection: _____ Date of last Inspection: _____ Date of Next Inspection: _____

The signature below certify that the above is a true report of the inspection / test of the equipment specified and consider fit for service until the date of next inspection.

Competent Inspector: _____ Report Generation Date: _____

Reviewed and Accepted by:

Next Inspection Date: _____

Approved by:

Signature: _____ Date: _____

Signature: _____ Date: _____

Pressure Vessel External Visual Inspection Report



Organization: Husky	Inspection Date: 01/06/2009
Plant: Southern Alberta	Equipment ID: 66068659
	Asset No: 66068659
	System: N/A
	Operating Unit: Warner Satellite

Background

Description:	SEPARATOR, HORIZONTAL, 4654 KPA, 4"x10"
Asset Type:	Separator

Inspection

Inspector:	LESTER, FORR	Company:	N/A	Insulated:	
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External Location Categories

Barrier Penetrations:		Damaged Insulation:		Vessel Supports:		Insulation Rings:	
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Internal Location Categories

Erosion Zones:	
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Inspection Comments

ID	Description	Condition	Location	NCR	Comments
LESTER, FO		N/A			The nameplate, instrumentation, piping and piping attachments are in acceptable condition. The vessel is bolted to a skid floor, anchor bolts are in acceptable condition. There are no apparent leaks in the system. The gauges and site glass are clear and in good condition. The structural attachments are in good condition. The vessel is protected by a PSV that is in acceptable condition. The vessels grounding is in satisfactory condition. The vessel is painted with no notable defects. the vessel is insulated the cladding insulation are in good condition with no notable corrosion being found.

Pressure Vessel External Visual Inspection Report

Inspection Summary

The nameplate, instrumentation, piping and piping attachments are in acceptable condition. The vessel is bolted to a skid floor, anchor bolts are in acceptable condition. There are no apparent leaks in the system. The gauges and site glass are clear and in good condition. The structural attachments are in good condition. The vessel is protected by a PSV that is in acceptable condition. The vessels grounding is in satisfactory condition. The vessel is painted with no notable defects. the vessel is insulated the cladding insulation are in good condition with no notable corrosion being found.

Pressure Vessel External Visual Inspection Report

Inspection Planning

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Reviewed and Accepted by:

Next Inspection Date: _____

Approved by:

Signature: _____ Date: _____

Signature: _____ Date: _____